

Title (en)
IMPACT ABSORBING APPARATUS FOR A BELT CONVEYOR

Title (de)
SCHOCKABSORBIERENDE VORRICHTUNG FÜR BANFÖRDERER

Title (fr)
ABSORBEUR DE CHOCs POUR BANDE TRANSPORTEUSE

Publication
EP 0782537 A1 19970709 (EN)

Application
EP 95938828 A 19951011

Priority
• US 9513564 W 19951011
• US 32484094 A 19941018

Abstract (en)
[origin: WO9611863A1] A shock-aborbing suspension (10) for a conveyor assembly includes brackets (22, 22') that attach to the parallel support beams (11) of the conveyor (18). The brackets support corresponding saddles (32, 32'), that in turn, mount the conveyor assembly. In a preferred embodiment, the saddles are mounted above inverted U-shaped brackets that are attached to the top flange of the support beams. Dual coil springs (34) are positioned vertically between the brackets and the saddles, with one spring on each side of the supprot beams. Within the springs are guide pins (35) to restrict lateral movement, while adjustable fasteners (37) preload the springs. In alternate embodiment, the bracket/saddle combination is reoriented to provide increased overhead clearance. Each longitudinal end of the combination is covered by a skirt (52) of flexible rubber to protect the interior from dust and debris. The brackets (22') on opposing support beams are connected by a telescoping linkage (25) that adjusts the spacing between the bracket/saddle combinations to match the spacing between the support beams. A kit is also provided for retrofitting a conveyor assembly.

IPC 1-7
B65G 47/19

IPC 8 full level
B65G 39/12 (2006.01)

CPC (source: EP US)
B65G 39/12 (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 9611863 A1 19960425; AU 4006395 A 19960506; CA 2202977 A1 19960425; EP 0782537 A1 19970709; EP 0782537 A4 19980304; US 5564557 A 19961015

DOCDB simple family (application)
US 9513564 W 19951011; AU 4006395 A 19951011; CA 2202977 A 19951011; EP 95938828 A 19951011; US 32484094 A 19941018